

# Human Glycine N-methyltransferase/GNMT antibody

Catalog Number: ATGA0370

## PRODUCT INFORMATION

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**Catalog number**

ATGA0370

**Clone No.**

AT5D1

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q14749

**NCBI Accession No.**

NP\_061833

**Alternative Names**

Glycine N-methyltransferase, GNMT, Glycine N-methyltransferase, Glycine N-methyltransferase EC 2.1.1.20, Glycine N methyltransferase

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human GNMT (1-295aa) purified from E. coli.

**Isotype**

IgG2a kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

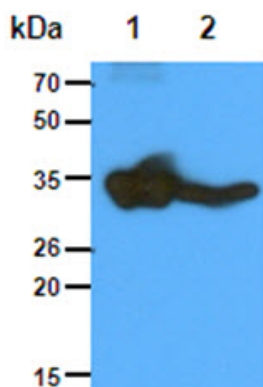
Ras-related protein Glycine N-methyltransferase (GNMT) catalyzes the methylation of glycine by using S-adenosylmethionine (AdoMet) to form N-methylglycine (sarcosine) with the concomitant production of S-adenosylhomocysteine (AdoHcy). Possible crucial role in the regulation of tissue concentration of AdoMet and of metabolism of methionine.

### General References

Velichkova., et al. (2006) J Phys Chem B. 109: 8216-8219.  
Huang YC., et al. (2008) J Gastroenterol Hepatol. 23: 1384.

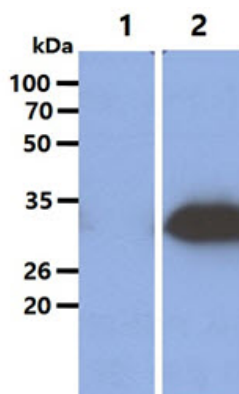
## DATA

### Western blot analysis (WB)



The recombinant protein (50ng) and tissue lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GNMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant human GNMT protein  
Lane 2.: Mouse Liver tissue lysate



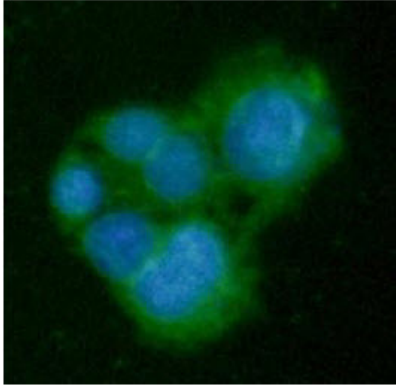
The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GNMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate  
Lane 2.: GNMT Transfected 293T cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of GNMT in HepG2 cells. The cell was stained with ATGA0370 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).